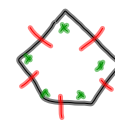


## 6.3 Angles and Polygons p. 368-372

- Regular Polygons
- External Angles of Polygons
- Interior Angle of Polygons- Formula

## Regular Polygon

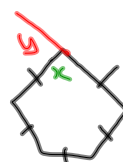


May 13-7:16 AM

May 13-8:30 AM

penta - 5  
 hexagon - 6  
 heptagon - 7  
 octagon - 8  
 nonagon - 9  
 decagon - 10

May 13-8:33 AM



All exterior angles of any polygon  
 are equal to  $360^\circ$ .

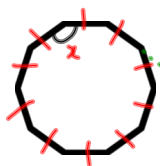
$$\frac{360}{5} = 72^\circ$$

$\angle y = 72^\circ$  (sum of ext polygon)

$$\begin{aligned}\angle x &= \text{interior angle} \\ &= 180 - 72 \\ &= 108 \text{ (SAT)}\end{aligned}$$

May 13-8:36 AM

## Decagon



$$P = (180)(n-2) \quad n = \# \text{ of sides}$$

$$P = (180)(10-2)$$

$$P = 180(8)$$

$$P = 1440$$

10

$$\angle \text{int} = 144^\circ \text{ (int } \angle \text{ of polygon)}$$

May 13-8:42 AM

Hmk. p. 371-372 q. 1,2,5,7& 10

May 13-7:18 AM